

# Enhanced Instrument Automation with Test Script Processor Technology

Automate faster with “smart” instrumentation enabled by **Test Script Processor (TSP™)** technology. These instruments are capable of executing both instrument control commands and basic programming functionality.

## TSP Includes a Command Set

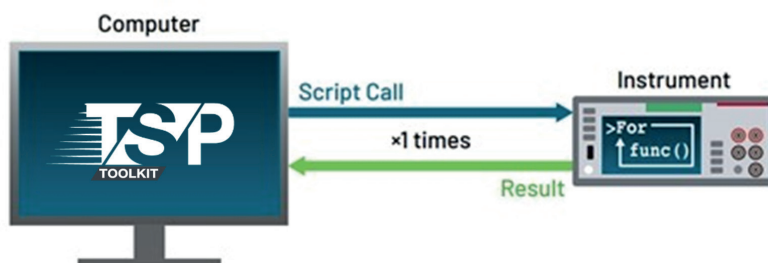
TSP-enabled instruments operate like conventional SCPI instruments by responding to a sequence of individual commands sent by the controller. Just like SCPI, TSP commands cover basic operation and settings on the instrument. Unlike SCPI commands though, TSP is designed to be intuitive and human readable for ease of programming.



## TSP Includes a Programming Language

The TSP programming language is based on Lua version 5.0, and when used together with the TSP command set, users can create scripts that can execute logic and data analysis that would normally reside on the PC.

A TSP-enabled instrument performs more quickly and efficiently when it processes scripts than it does when it processes individual commands. Scripts eliminate repeated data and message transfer times from the controller, reducing interface bandwidth.



## TSP Toolkit is a TSP Script Editor

TSP Toolkit base version is an open-source scripting tool available as a Visual Studio Code (VS Code) extension. It can be used to develop TSP test scripts alongside your other favorite VS Code extensions for languages like Python or C#.

TSP Toolkit includes many quality-of-life features that improve the script development experience such as command autocompletion alongside in-line and hover help.

To learn more about TSP for Test Automation and TSP-enabled instrumentation, please visit [tek.com/tsp](https://tek.com/tsp).